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A USB-based wireless transmitting/receiving system includes a transmitting portion connected to at least one USB-based peripheral device for receiving a signal from the peripheral device and a receiving portion connected to a computer host and coupled to the transmitting portion in a wireless fashion for receiving and applying the signal from the transmitting portion to the computer host whereby a wireless communication is established between the computer host and the USB-based peripheral device. Both the transmitting portion and the receiving portion include a central processing unit for processing signals received, a receiving unit for receiving signals, a transmitting unit for transmitting signals and a power supply system for powering the transmitting portion or the receiving portion. The power supply system includes a regulation circuit adapted to connect to an electric main. The power supply system may selectively include a primary battery set, a secondary battery set and/or a solar cell system, all connected to a controller to which the regulation circuit is also connected for selectively powering the transmitting portion or the receiving portion.